

ROXUL MONOBOARD® PLUS

Flat Roof Insulation

Product Description & Application

ROXUL MONOBOARD® PLUS is a high density, bitumen coated, mineral wool insulation board for flat roofing applications

	Performance								Test Standard
Compliance	Standard Specification for Mineral Fiber Roof Insulation Boards Approval Standard for Single Ply, Polymer Modified Bitumen Sheet, Built-Up Roof and Liquid Applied Roof Assemblies for use in Class 1 and Noncombustible Roof Deck Construction NCC (Non Combustible Core) Rated Roof Insulation								ASTM C726***
									FM 4470
									FM 4470
Reaction to Fire	Flame spread index = 0 ; Smoke developed index = 0								ASTM E84 (UL 723)***
	Flame spread index = 0 ; Smoke developed index = 0								CAN/ULC S102***
	Determination of Non Combustibility of Building Materials - Non Combustible								CAN/ULC S114
	Standard Method of Fire Tests for Determining Heat Release Rate of Roofing Assemblies with Combustible Above Deck Roofing Components - Class 1								NFPA 276
	Fire Tests of Roof Coverings - Class A								CAN/ULC S107-03
	Fire Spread under Roof Deck Assemblies - See ULC Directory								CAN/ULC S126-06
	Standard Test Methods for Fire Tests of Roof Coverings - Class A								UL 790 (ASTM E108)
Density	Fire Tests of Building Construction and Materials - See UL Directory								UL 263 (ASTM E119)
	Actual Density - 12.5 lb/ft³ (200 kg/m³)								ASTM C303
Dimensional Stability	Linear Shrinkage - 1.1% @ 1200°F (650°C)								ASTM C356
	Linear Change 7 days @ 40°F (-40°C), ambient RH - 0.0%								ASTM D2126
	Linear Change 7 days @ 200°F (93°C), ambient RH - 0.1%								
	Linear Change 7 days @ 158°F (70°C), 97% RH - 0.1%								
Hail Performance	Test Standard for Susceptibility to Hail Damage - Class 1 - SH (Severe Hail)								FM 4470
	Impact Resistance by Impacting with Freezer Ice Balls - Class 4								FM 4473
	Impact Resistance of Prepared Roof Covering Materials - Class 4								UL 2218
Thermal Resistance	Mean Temperature		R-Value		RSI Value			ASTM C518 (C177)	
	75°F (24°C)		4.0 hr.ft2.F/Btu		0.70 m2K/W				
	25°F (-4°C)		4.4 hr.ft2.F/Btu		0.77 m2K/W				
	40°F (4°C)		4.3 hr.ft2.F/Btu		0.75 m2K/W				
	110°F (43°C)		3.7 hr.ft2.F/Btu		0.66 m2K/W				
Reaction to Moisture	Moisture Sorption - 0.29%								ASTM C1104
	Water Absorption - <1.0%								ASTM C209
	Water Vapor Transmission, Desiccant Method - 2360 ng/Pa.s.m2 (41 perm)								ASTM E96
Compressive Strength	11psi (75kPa) @ 10% compression								ASTC C165
	28psf (190kPa) @ 25% compression								
Corrosion Resistance	Stress Corrosion Cracking Tendency of Austenitic Stainless Steel - Passed								ASTM C795
	Corrosion of Steel - Passed								ASTM C665
Thickness Dimensions	Nominal - 1" (25.4mm) Actual - 1.04" (26.4mm)								
	48"x48" (1219mm x 1219mm)								
Acoustical Performance	Thickness	125 Hz	250 Hz	500 Hz	1000 Hz	2000Hz	4000 Hz	NRC	ASTM C423
	1"	0.13	0.49	0.85	0.89	0.89	0.97	0.8	
	Contact ROXUL for STC rated assemblies								ASTM E90



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NOTE: *Mast Format 1995 Edition **Master Format 2004 Edition, ***Tests based on unfaced material. As ROXUL Inc has no control over installation design and workmanship, accessory materials or application conditions, ROXUL Inc. does not warranty the performance or results of any installation containing ROXUL Inc's products. ROXUL Inc's overall liability and the remedies available are limited by the general terms and conditions of sale. This warranty is in lieu of all other warranties and conditions expressed or implied, including the warranties of merchantability and fitness for a particular purpose.

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